

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

Claims 1-43 (Cancelled).

44. (New) A reception device of a first radio communication terminal in a wireless LAN system for radio communication based on a TDMA system with idle time provided between data to be transmitted and received by radio communication terminals, said reception device comprising:

a monitoring unit that monitors data which is transmitted from a second radio communication terminal in said wireless WLAN system to a third radio communication terminal in said wireless WLAN system;

a header acquiring unit that acquires a header of said monitored data, said header being able to be used for processing of data addressed to said first radio communication terminal; and

a processing performing unit that, in case of receiving data without said header from said second radio communication terminal, performs processing of said received data referring to said header acquired from said monitored data.

45. (New) The reception device according to claim 44, further comprising a setting changing unit that changes a communication setting during said radio communication to reduce header transmission time and/or idle time.

46. (New) The reception device according to claim 44, further comprising:

an ability acquiring unit that acquires an ability to reduce header transmission time and/or idle time of said second radio communication terminal from a radio communication terminal different from said second radio communication terminal; and

a setting changing unit that changes a communication setting during said radio communication to reduce said header transmission time and/or said idle time, by referring to said ability.

47. (New) The reception device according to claim 44, further comprising:

a first data reception unit that receives data with said header for each of predetermined data transmissions; and

a second data reception unit that receives other data without said header being added.

48. (New) The reception device according to claim 47, further comprising a number setting unit that sets the number of said predetermined data transmissions where said header is added in communication setting.

49. (New) The reception device according to claim 44, further comprising:

an identification information associating unit that associates identification information to identify said second radio communication terminal with information relating to said header; and

a transmission unit that transmits said identification information to said second radio communication terminal.

50. (New) The reception device according to claim 44, further comprising:
a first reception unit that receives information relating to said header as data; and
a second reception unit that receives data added with predetermined identification information from said second radio communication terminal subsequently, said predetermined identification information being associated with said header.

51. (New) The reception device according to claim 50, further comprising an identification information setting unit that sets said identification information with said second radio communication terminal.

52. (New) The reception device according to claim 44, further comprising a transmission unit that, when receiving data, transmits acknowledgment information to notify that said received data has been successfully received followed by transmitting data.

53. (New) The reception device according to claim 52, further comprising a transmission terminating unit that terminates transmission of said data following said acknowledgment information in accordance with a predetermined condition.

54. (New) The reception device according to claim 44, wherein communication in accordance with IEEE Std 802.11 is utilized as said radio communication.

55. (New) A transmission device of a first communication terminal in a wireless LAN system for radio communication based on a TDMA system with idle time provided between data to be transmitted and received by radio communication terminals, said transmission device comprising:

a first transmission unit that transmits data with a header to a second communication terminal in said wireless LAN system, said data being able to be acquired by a third communication terminal in said wireless WLAN system and said header of said data being able to be used for processing of data addressed to said third communication terminal; and

a second transmission unit that transmits data without said header to said third communication terminal.

56. (New) The transmission device according to claim 55, further comprising a setting changing unit that changes a communication setting during said radio communication to reduce header transmission time and/or idle time.

57. (New) The transmission device according to claim 55, further comprising:

an ability acquiring unit that acquires an ability to reduce header transmission time and/or idle time of said third radio communication terminal from a radio communication terminal different from said third radio communication terminal; and

a setting changing unit that changes a communication setting during said radio communication to reduce said header transmission time and/or said idle time, by referring to said ability.

58. (New) The transmission device according to claim 55, further comprising:

a third transmission unit that transmits said data with said header for each of predetermined data transmissions; and

a fourth transmission unit that transmits other data without said header being added.

59. (New) The transmission device according to claim 58, further comprising a number setting unit that sets the number of said predetermined data transmissions where said header is added in communication setting.

60. (New) The transmission device according to claim 55, further comprising an identification information reception unit that receives identification information to identify said first radio communication terminal from said third radio communication terminal, said identification information being associated with information relating to said header by said third radio communication terminal.

61. (New) The transmission device according to claim 55, further comprising:

a third transmission unit that transmits information relating to said header as data; and

a fourth transmission unit that transmits data added with predetermined identification information to said third radio communication terminal subsequently, said predetermined identification information being associated with said header.

62. (New) The transmission device according to claim 61, further comprising an identification information setting unit that sets said identification information with said third radio communication terminal.

63. (New) The transmission device according to claim 55, further comprising a third transmission unit that, when receiving data, transmits acknowledgment information to notify that said received data has been successfully received followed by transmitting data.

64. (New) The transmission device according to claim 63, further comprising a transmission terminating unit that terminates transmission of said data following said acknowledgment information in accordance with a predetermined condition.

65. (New) The transmission device according to claim 55, wherein communication in accordance with IEEE Std 802.11 is utilized as said radio communication.

66. (New) A reception method performed by a first radio communication terminal in a wireless LAN system for radio communication based on a TDMA system with idle time

provided between data to be transmitted and received by radio communication terminals, said reception method comprising the steps of:

monitoring data which is transmitted from a second radio communication terminal in said wireless WLAN system to a third radio communication terminal in said wireless WLAN system;

acquiring a header of said monitored data, said header being able to be used for processing of data addressed to said first radio communication terminal; and

in case of receiving data without said header from said second radio communication terminal, performing processing of said received data referring to said header acquired from said monitored data.

67. (New) A transmission method performed by a first communication terminal in a wireless LAN system for radio communication based on a TDMA system with idle time provided between data to be transmitted and received by radio communication terminals, said transmission method comprising the steps of:

transmitting data with a header to a second communication terminal in said wireless LAN system, said data being able to be acquired by a third communication terminal in said wireless WLAN system and said header of said data being able to be used for processing of data addressed to said third communication terminal; and

transmitting data without said header to said third communication terminal.